

## **Analytical Methods Recommended for Drinking Water Monitoring of Secondary Contaminants**

Analysis for the following contaminants may be conducted in accordance with the methods in the following table, or their equivalent as determined by EPA. Methods for copper, fluoride, and pH are listed in 40 CFR 141.23 and methods for the remaining contaminants are in 40 CFR 143.4. Additional methods are listed in Appendix A to Subpart C of Part 141. The recommended monitoring for these contaminants is specified in 40 CFR 143.4.

The CFR is the legal reference for approved methods and takes precedent over this table. The table should accurately reflect the analytical methods information published in 40 CFR 141.23, 143.4, and Appendix A to Subpart C of Part 141. If you find discrepancies, please notify The Safe Drinking Water Hotline (800-426-4791) so that EPA can correct the table.

Contaminant Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Aluminum	contained in		inking Water	Methods (EPA/600/R-9		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
EPA	200.5 Rev 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometery	October 200	03 EPA/600/R-06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7 Rev 4.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.8 Rev 5.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.9 Rev 2.2	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
Standard Methods	3111 D	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3111 D	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods

Contaminant	Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Aluminum	contained		nking Water I	Methods (EPA/600/R-94		hout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods	3111 D	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	3111 D-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminant	t Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Aluminum	contained i		nking Water	Methods (EPA/600/R-94		hout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Chloride						
ASTM International	D4327-03	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D4327-97	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D512-04 B	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D512-89 B (Reapproved 1999)	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org

Contaminant	Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Chloride						
EPA	300.0 Rev 2.1	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	PB94-120821	http://www.nemi.gov
EPA	300.1 Rev 1.0	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1	August 2000	EPA 815-R-00-014	PB2000-106981	http://www.epa.gov/safewater/methods/analyticalmethods_ogwdw.html
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-Cl- B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-Cl- B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-Cl- B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-Cl- B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

Contaminant	t Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Chloride						
Standard Methods	4500-Cl- D	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-Cl- D	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-Cl- D	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-Cl- D	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	4110 B-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-Cl- B-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-Cl- D-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminan Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Chloride						
Waters Corporation	Method D6508, Revision 2	Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte				Waters Corporation
Color						
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	2120 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	2120 B-01	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Copper	contained i		nking Water	Methods (EPA/600/R-94/		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
ASTM International	D1688-02 A	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1688-02 C	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org

Contaminan	t Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Copper	contained ir		nking Water	Methods (EPA/600/R-9		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
ASTM International	D1688-07 A	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1688-07 C	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1688-90 A	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ASTM International	D1688-90 C	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ASTM International	D1688-95 A	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D1688-95 C	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
EPA	200.5 Rev 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometery	October 200	)3 EPA/600/R-06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7 Rev 4.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.8 Rev 5.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.9 Rev 2.2	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov

Contaminan	t Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Copper	contained		Drinking Water M	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods

Contaminant	Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Copper	contained in		nking Water I	Methods (EPA/600/R-94		hout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Fluoride						
ASTM International	D1179-04 B	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org

Contaminant Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Fluoride						
ASTM International	D1179-93 B	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ASTM International	D1179-99 B	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D4327-03	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D4327-97	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
Bran + Luebbe	129-71W	Fluoride in Water and Wastewater	December 1972			Bran+Luebbe
Bran + Luebbe	380-75WE	Fluoride in Water and Wastewater	February 1976			Bran+Luebbe
EPA	300.0 Rev 2.1	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993	EPA/600/R-93/100	PB94-120821	http://www.nemi.gov
EPA	300.1 Rev 1.0	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1	August 2000	EPA 815-R-00-014	PB2000-106981	http://www.epa.gov/safewater/methods/analyticalmethods_ogwdw.html
Hach Co.	10225	Hach Company SPADNS 2 (Arsenite-Free) Fluoride Method 10225—Spectrophotometric Measurement of Fluoride in Water and Wastewater	January 2011			http://www.hach.com
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods

Contaminan	Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Fluoride						
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-F- B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-F- B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-F- B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-F- B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-F- C	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-F- C	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-F- C	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-F- C	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

<b>Contaminan</b> Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Fluoride						
Standard Methods	4500-F- D	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-F- D	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-F- D	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-F- D	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-F- E	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-F- E	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-F- E	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-F- E	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	4110 B-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminant	Method		Deta	EPA Publication	Publication Order	Courses of Motheral
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Fluoride						
Standard Methods Online	4500-F- B-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-F- C-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-F- D-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-F- E-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Waters Corporation	Method D6508, Revision 2	Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte				Waters Corporation

Contaminan	Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Foaming Age	ntu					
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 19th Edition Supplement	1996			Standard Methods
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	5540 C	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	5540 C-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
ron	contained in		inking Water I	Methods (EPA/600/R-94/		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
EPA	200.5 Rev 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometery	October 200	3 EPA/600/R-06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7 Rev 4.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov

Contaminan	t Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
lron	contained in		inking Water	Methods (EPA/600/R-9		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
EPA	200.9 Rev 2.2	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods

Contaminant Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Iron	contained		inking Water	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Manganese	Criteria for a contained in		inking Water	er, and zinc samples with Methods (EPA/600/R-9	h digestion or directly w	ithout digestion, and other recommended procedures are EPA's digital publications National Environmental
EPA	200.5 Rev 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometery	October 200	03 EPA/600/R-06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7 Rev 4.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.8 Rev 5.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.9 Rev 2.2	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods

Contaminan Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Manganese	contained		inking Water	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminant	t Method			EPA Bublication	Publication	
Organization		Reference Title	Date	Publication Number	Order Number	Source of Method
Manganese	contained i		inking Water I	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Odor						
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	2150 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

Contaminant Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Odor						
Standard Methods Online	2150 B-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
рН						
ASTM International	D1293-84	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ASTM International	D1293-95	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
ASTM International	D1293-99	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
EPA	150.1	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4-79/020	PB84-128677	http://www.nemi.gov
EPA	150.2	In Methods for Chemical Analysis of Water and Wastes	March 1983	EPA/600/4-79/020	PB84-128677	http://www.nemi.gov
Standard Methods	4500-H+ B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-H+ B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-H+ B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-H+ B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

Contaminant Organization	Method	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
рН				Number	Number	
Standard Methods Online	 4500-H+ B-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Silver	contained in		inking Water	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
EPA	200.5 Rev 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometery	October 200	03 EPA/600/R-06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7 Rev 4.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.8 Rev 5.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.9 Rev 2.2	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods

Contaminan	t Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Silver	contained		inking Water I	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3113 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminant	Method			EPA Publication	Publication Order	
Organization	Number	Reference Title	Date	Number	Number	Source of Method
Silver	contained		nking Water N	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods Online	3113 B-04	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3113 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
U.S. Geological Survey	I-3720-85	In Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, USGS Series: Techniques of Water-Resource Investigation Report; edited by Fishman, M.J. & Friedman, L.C.	1989		05-A1	<u>http://infotrek.er.usgs.gov/pubs/</u>
Sulfate						
ASTM International	D4327-03	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D4327-97	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org

Contaminant Organization	t Method Number	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Sulfate						
ASTM International	D516-02	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D516-07	Annual Book of ASTM Standards, Vol. 11.01				http://www.astm.org
ASTM International	D516-90	Annual Book of ASTM Standards, Vol. 11.01				ASTM International (ASTM)
EPA	300.0 Rev 2.1	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993 I	EPA/600/R-93/100	PB94-120821	http://www.nemi.gov
EPA	300.1 Rev 1.0	In Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1	August 2000 H	EPA 815-R-00-014	PB2000-106981	http://www.epa.gov/safewater/methods/analyticalmethods_ogwdw.html
EPA	375.2 Rev 2.0	In Methods for the Determination of Inorganic Substances in Environmental Samples	August 1993 I	EPA/600/R-93/100	PB94-120821	http://www.nemi.gov
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4110 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-SO42- C	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods

Contaminant Organization	Method Number	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
Sulfate						
Standard Methods	4500-SO42- C	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-SO42- C	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-SO42- C	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-SO42- D	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-SO42- D	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-SO42- D	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-SO42- D	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-SO42- E	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-SO42- E	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-SO42- E	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods

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Organization	Number	Reference Title	Date	Number	Number	Source of Method
Sulfate						
Standard Methods	4500-SO42- E	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	4500-SO42- F	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	4500-SO42- F	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	4500-SO42- F	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	4500-SO42- F	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	4110 B-00	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-SO42- C- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminant Organization	Method	Reference Title	Date	EPA Publication	Publication Order	Source of Method
Organization	Number		Dale	Number	Number	
Sulfate						
Standard Methods Online	4500-SO42- D- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-SO42- E- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	4500-SO42- F- 97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Waters Corporation	Method D6508, Revision 2	Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte				Waters Corporation
TDS						
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods

Contaminant Organization	Method	Reference Title	Date	EPA Publication	Publication Order	Source of Method
-	Number	Reference fille	Date	Number	Number	
ГDS						
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	2540 C	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	2540 C-97	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
linc	contained in		inking Water	Methods (EPA/600/R-9		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
EPA	200.5 Rev 4.2	Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma - Atomic Emission Spectrometery	October 200	)3 EPA/600/R-06/115		http://www.epa.gov/nerlcwww/ordmeth.htm
EPA	200.7 Rev 4.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
EPA	200.8 Rev 5.4	In Methods for the Determination of Metals in Environmental Samples Supplement 1	May 1994	EPA/600/R-94/111	PB95-125472	http://www.nemi.gov
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods

Contaminant	t Method			EPA Publication	Publication Order	
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Zinc	contained		inking Water I	Methods (EPA/600/R-94		thout digestion, and other recommended procedures are EPA's digital publications National Environmental
Standard Methods	3111 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 18th Edition	1992			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 19th Edition	1995			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 20th Edition	1998			Standard Methods
Standard Methods	3120 B	Standard Methods for the Examination of Water and Wastewater, 21st Edition	2005			Standard Methods
Standard Methods Online	3111 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/
Standard Methods Online	3120 B-99	Online version of Standard Methods for the Examination of Water and Wastewater. Approval year by Standard Methods Committee is designated by last 2 digits. This is the only online version that is approved.				http://www.standardmethods.org/

Contaminant Method Organization Number	Reference Title	Date	EPA Publication Number	Publication Order Number	Source of Method
			Number	Number	

Contact information for methods that are not available on the Internet are summarized in the report titled "Sources of Approved Analytical Methods for National Drinking Water Regulations."